#### IN THE CLAIMS:

Rewrite the pending claims as follows:

 (Previously presented) A method of querying number-range searches, comprising: receiving a number-range search query having a number range, wherein the number range includes a boundary number;

generating an expression of numerical index terms based on the boundary number, wherein a respective numerical index term in the expression includes information indicative of an integral portion of a logarithm of the boundary number;

searching a document index using the expression to identify one or more documents containing numbers that satisfy the expression; and

returning a result in accordance with at least a subset of the identified documents.

# 2. (Cancelled)

- 3. (Previously presented) The method of claim 1, wherein at least one numerical index term in the expression includes information indicating that a specified digit is the last non-zero digit of a respective number.
- 4. (Previously presented) The method of claim 1, wherein at least one numerical index term in the expression includes information indicative of the sign of a respective number.
- 5. (Previously presented) The method of claim 1, wherein at least one numerical index term in the expression includes information indicative of a number type associated with a respective number range.
- 6. (Previously presented) The method of claim 1, wherein the expression includes a plurality of numerical index terms that each correspond to a single respective digit of a respective number.

### 7-12. (Cancelled)

13. (Previously presented) A computer-readable medium having stored thereon instructions which, when executed by a processor, cause the processor to perform the operations of:

receiving a number-range search query having a number range, wherein the number range includes a boundary number;

generating an expression of numerical index terms based on the boundary number, wherein a respective numerical index term in the expression includes information indicative of an integral portion of a logarithm of the boundary number;

searching a document index using the expression to identify one or more documents containing numbers that satisfy the expression; and

returning a result in accordance with at least a subset of the identified documents.

# 14. (Cancelled)

- 15. (Previously presented) The computer-readable medium of claim 13, wherein at least one numerical index term in the expression includes information indicating that a specified digit is the last non-zero digit of a respective number.
- 16 (Previously presented) The computer-readable medium of claim 13, wherein at least one numerical index term in the expression includes information indicative of the sign of a respective number.
- 17. (Previously presented) The computer-readable medium of claim 13, wherein at least one numerical index term in the expression includes information indicative of a number type associated with a respective number range.
- 18. (Previously presented) The computer-readable medium of claim 13, wherein the expression includes a plurality of numerical index terms that each correspond to a single respective digit of a respective number.

# 19-24. (Cancelled)

25. (Currently Amended) A search engine for querying number range searches, comprising:

one or more servers, each having one or more processors and memory, the one or more servers including:

a query encoder configured to receive a search query for a number range having a boundary number, wherein the query encoder is configured to generate an expression of numerical index terms based on the boundary number, and wherein a respective numerical index term in the expression includes information indicative of an integral portion of a logarithm of the boundary number; and

an index <u>searcher</u> server coupled to the query encoder and configured to search a document index using the expression to identify one or more documents containing numbers that satisfy the expression and to return a result in accordance with at least a subset of the identified documents. ; and

returning a result in accordance with at least a subset of the identified documents.

- 26. (Cancelled)
- 27. (Previously presented) The search engine of claim 25, wherein at least one numerical index term in the expression includes information indicating that a specified digit is a last non-zero digit of a respective number.
- 28. (Previously presented) The search engine of claim 25, wherein at least one numerical index term in the expression includes information indicative of the sign of a respective number.
- 29. (Previously presented) The search engine of claim 25, wherein at least one numerical index term in the expression includes information indicative of a number type associated with a respective number range.
- 30. (Previously presented) The search engine of claim 25, wherein the expression includes a plurality of numerical index terms that each correspond to a single respective digit of a respective number.
- 31-36. (Cancelled)

- 37. (Previously presented) The method of claim 6, wherein a respective numerical index term in the expression represents a respective digit of a respective number in base 10.
- 38. (Previously presented) The method of claim 37, wherein the respective numerical index term in the expression corresponds to the position of the respective digit within the respective number.
- 39. (Previously presented) The method of claim 1, wherein the integral portion of the logarithm of a respective boundary number is an integral portion of a base 10 logarithm of the respective boundary number.
- 40. (Previously presented) The method of claim 1, wherein a respective numerical index term in the expression includes information indicative of a mantissa of a respective number.
- 41. (Previously presented) The computer-readable medium of claim 18, wherein a respective numerical index term in the expression represents a respective digit of a respective number in base 10.
- 42. (Previously presented) The computer-readable medium of claim 41, wherein the respective numerical index term in the expression corresponds to the position of the respective digit within the respective number.
- 43. (Previously presented) The computer-readable medium of claim 13, wherein the integral portion of the logarithm of a respective boundary number is an integral portion of a base 10 logarithm of the respective boundary number.
- 44. (Previously presented) The computer-readable medium of claim 13, wherein a respective numerical index term in the expression includes information indicative of a mantissa of a respective number.
- 45. (Previously presented) The search engine of claim 30, wherein a respective numerical index term in the expression represents a respective digit of a respective number in base 10.

- 46. (Previously presented) The search engine of claim 45, wherein the respective numerical index term in the expression corresponds to the position of the respective digit within the respective number.
- 47. (Previously presented) The search engine of claim 25, wherein the integral portion of the logarithm of a respective boundary number is an integral portion of a base 10 logarithm of the respective boundary number.
- 48. (Previously presented) The search engine of claim 25, wherein a respective numerical index term in the expression includes information indicative of a mantissa of a respective number.